X4-TECH

sol T700

Mobile 7" widescreen
DVB-T television with
USB 2.0 port & 3-in-1 card slot

Instruction Manual

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Dear Customer:

Thank you for deciding on purchasing this quality product from X4-TECH.
This instruction manual will give you a general idea of how this device operates, as well as provide you with information on cleaning and safety procedures. Please take a few minutes to read and follow all safety and operating instructions found in this manual carefully, in order to maintain this products condition and ensure safe operation. Retain this instruction manual for future reference and where required pass it along with the device if handed over to a third party.
Should you have any additional questions regarding this device or should any suggestions arise, please contract a specialized dealer or our service team for further information.
We look forward to you recommending us to others and hope you enjoy using this device from X4-TECH.

Your X4-TECH Team

All company and product names mentioned in this document are registered trademarks of their respective owners. All rights reserved.

We assume no liability for damage occurred as a result of improper use or damage resulting from the failure to comply with the safety instructions found in this manual, improper operation or handling! Under such circumstances, all claims under warranty will become void. We assume no liability for consequential damage!
The information contained in this instruction manual is subject to change without notice.

This product is EMV-certified and fulfills all European and National guideline requirements. A declaration of CE conformity has been established for this product. Certification has been documented and entrusted to the manufacturer.

1 Intended use

The SOL T700 is a mobile device intended for DVB-T television reception and viewing. USB flash drives with a capacity of up to 32 GB and external hard disks formatted to FAT32 and with a capacity of up to 80 GB can be used via the USB port. Hard disks require their own power supply and should only have one partition. You will also be able to use SDHC, SD, MMC and MS memory cards with a capacity of up to 32 GB and formatted to FAT32 with the 3-in-1 card reader. This device also supports JPEG image files, AVI video files and MP3 and WAV audio files.

Please adhere to all of the safety information/instructions found in this instruction manual!

Explanation of symbols

An exclamation mark is intended to inform the user of important information, operation or maintenance instructions or that special attention is required.

This symbol is intended to alert you to the presence of unprotected, live parts or components found within the product's enclosure or of dangerous connections that upon contact may be of sufficient magnitude to constitute a risk of electric shock. Cables intended for such connections should only be connected by qualified personnel or you should only use ready to connect cables. There are no user-serviceable parts found inside the device, therefore the device is never to be opened.

Safety information

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Dear Customer:

The following safety and hazard warnings are not only for the protection of your device, but also serve as a protection against potential health hazards. Please take time to read the following instructions carefully.

› We assume no liability for personal or property damage resulting from the failure to comply with the safety instructions, improper operation and handling. Under such circumstances, all claims under warranty will become void.

› For safety and licensing (CE) reasons any unauthorized modification and/or change on the device is prohibited and will void the warranty and all warranty claims.

› Any person operating, installing, setting up, or servicing this device must be trained and qualified accordingly and must also observe these operating instructions.

› Ensure that the device has been set up accordingly by following all instructions found in the instruction manual.

› Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point at which they exit from the device. Avoid exposing the cable to extreme heat or cold. Never modify/change the cable. This could otherwise damage the cable and result in the dangerous risk of electric shock.

› Should any evident damage be seen on the device, power supply or on the connection cables, do not come in contact with or touch these. Switch off the corresponding circuit breaker in the power distribution panel first before carefully unplugging the power plug from the wall outlet. Do not operate this device further! Please contact or take it to a qualified service technician/specialty workshop.

› Unplug the power plug from the wall outlet in order to completely cut off the power supply to the device. Merely turning the device off with the ON/OFF button is not sufficient enough. Make sure that receptacles are easily accessible.

› Always pull on the plug's grips and never on the cable to remove from a power outlet.

› The device should be unplugged from the power outlet if it is not in use for a longer period of time.

› For safety reasons always unplug the device from the power outlet during thunderstorms.

› Eliminate potential tripping hazards by routing cables so that no one can trip or stumble over them.

› Never use the device if the power cable or device is damaged.

This device is not suitable for children under 3 years of age. Small children are unaware of the serious and immediate dangers involved when exposing themselves to or handling electronic devices.

› Furthermore, this product contains small parts that could be swallowed. Never leave packaging material lying around unsupervised. For children it could become a hazardous toy and lead to serious injury. Keep packaging and protective foil away from children at all times to a void the danger of suffocation.

› The device should never come in contact with water or moisture.

› To prevent the risk of fire or electric shock make sure that liquids, such as dripping or splashing water, rain or moisture, do not come in contact with the device and power supply plug.

› Operate this device in a moderate climate and never expose to extreme temperatures, such as high humidity.

› Condensation can build up suddenly when this device is brought from a colder into a warmer area (e.g. when transporting). Should this happen, allow the device to warm up to room temperature first before using.

› Care should be taken that liquids do not come in contact with the interior; this is why containers containing liquids, e.g. bucket, vase or plants should never be placed anywhere near or on this device. This can not only damage the device, but also become a fire hazard.

› It is imperative to avoid contact with moisture, e.g. in the bathroom. Never touch the power plug with damp or wet hands. There is the risk of electric shock!

› Ensure that the device is properly ventilated during operation and never operate it in constricted areas, such as for example in a bookcase

or shelf. Never block ventilation openings with magazines, tablecloths, curtains or similar.

› Make sure the device is placed on a firm and stable surface.

› Never place any sources of fire on top of or near the device and power supply plug (e.g. lighted candle).

› Your full concentration and attention is required while driving in traffic (as well as in many other surroundings).

› Operating the device, listening to music with earphones/headphones or watching a movie can divert one's attention and be just as distracting, as using your cell phone while driving. In case of an accident, insurance coverage might be denied and you could be partially blamed for the accident respectively!

› Please note that excessive sound pressure levels created when listening to loud volume levels, particularly with earphones or headphones, can lead to permanent hearing damage or loss.

› Please adhere to the additional safety information found in the individual chapters of this instruction manual.

› When connecting other devices, please refer to the safety and operating instructions found in the literature accompanying these devices.

› Please contact our technical hotline or a service technician for further information, should you be in doubt about device operation, safety or when making connections or if any questions arise that are not explained within this manual.

› Contribute to a better environment by using a designated disposal system (e.g. Dual System in Germany) or recycling site for the disposal of packaging material.

Copyright information

The reproduction, duplication and copying of copyright protected material, as well as the distribution, circulation, public access to or even the rental of these, without explicit authorization of the copyright holder, is strictly prohibited.

Before use

Please read this instruction manual thoroughly before operating this device and retain it for further reference, questions and use. Following and heeding all information found in this instruction manual shall maintain this products condition and ensure safe operation. Pass on to third parties, where applicable.

This instruction manual contains information on how to operate and maintain this device.

Should a component require maintenance, servicing or repairs, then please consult a qualified dealer or service technician.

When connecting other devices, please refer to the safety and operating instructions found in the literature accompanying these devices.

Features

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› 17.78 cm (7“) widescreen LCD color display [480 RGB (H) x 234 (V)] with LED backlight
› Mobile DVB-T reception and automatic channel search
› Integrated lithium rechargeable battery (7.4V / 1800mAh) for up to 2.5 hours of use
› Compatible USB 2.0 port
› Electronic program guide (EPG)
› Teletext (TTX)
› Supports JPEG image files
› Supports MP3 and WAV audio files
› Supports AVI video files
› Reads USB flash drives with a capacity of up to 32 GB and external hard disks with a capacity of up to 80 GB, all formatted to FAT32 (hard disks require their own power supply)
› Reads SDHC, SD, MMC and MS memory cards with a capacity of up to 32 GB and formatted to FAT 32
› Built-in stereo speakers

The device

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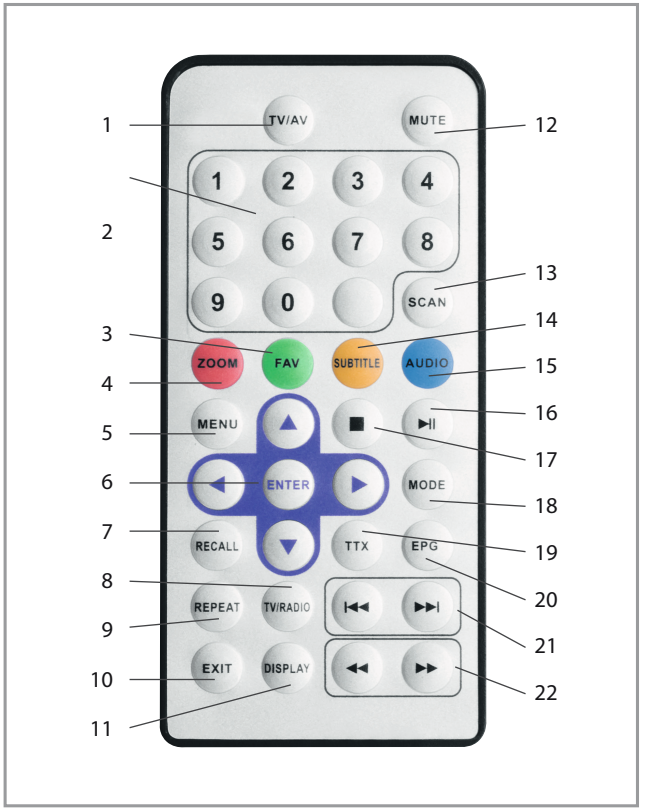
1. Volume control: increase/decrease the volume
2. A/V input: A/V IN (3.5 mm)
3. Earphone jack (3.5 mm)
4. A/V output: A/V OUT (3.5 mm)
5. Foldout stand
6. Power ON/OFF
7. Power supply jack (DC IN 9 – 12 V)
8. Power LED: lights up green when the device is turned on
9. Charge indicator: lights up red during charging, lights up green after charging has been completed
10. Infrared sensor: infrared receiver for the remote control
11. Display: 17.78 cm (7“) display with a 480 RGB (H) x 234 (V) display resolution
12. Control field: use to change channels, for navigation within menus, for making settings
13. TV/AV: changes between DVB-T and AV input operation
14. OK: use to confirm or make a selection
15. MODE: opens a menu with various display setting options
16. EPG: opens the electronic program guide
17. EXIT: exits a menu item or menu
18. MENU: opens the main menu
19. Stereo speakers
20. Antenna connection (75 Ω)
21. 3-in-1 card slot: for SDHC, SD, MMC and MS memory cards
22. USB 2.0 port

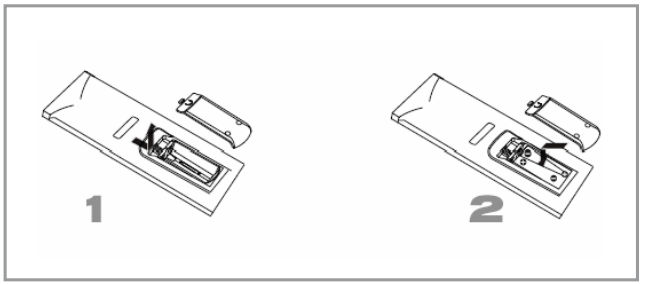
Remote control



1. TV/AV: changes between the device and A/V input operation
2. Numeric buttons: enter a channel number directly
3. FAV: displays a list of favorites
4. ZOOM: zoom function
5. MENU: opens the main menu
6. Control field: use to navigate or make a selection.
   Use the navigation buttons ◄ ► ▲ ▼ o select a menu item, channel or for changing/making settings.
   Press „ENTER" for access to the selected menu item.
7. RECALL: changes back and forth between the current and previously viewed channel
8. TV/RADIO: changes between TV and radio operation
9. REPEAT: switch through various repeat mode options
10. EXIT: exits a menu
11. DISPLAY: displays menu options (INFO: operation guide), displays various channel/file information
12. MUTE: deactivates/activates the sound
13. SCAN: starts a channel search
14. SUBTITLE: press to search for available subtitles
15. AUDIO: displays available audio options
16. ⏯: pauses/resume playback
17. ■: stops playback
18. MODE: opens a menu with various display setting options
19. TTX: displays available teletext pages
20. EPG: opens the electronic program guide
21. ⏭ ⏮: skip/return to the next/previous movie, song or picture
22. ⏪ ⏩: browse, fast forward/reverse

Changing batteries

› This remote control requires two AAA batteries for operation.



› To open the battery compartment, carefully remove the cover on the back of the remote control by sliding it in the direction of the arrow. Remove used batteries and dispose of these accordingly. Remove two new AAA batteries from their packaging and insert them into the battery compartment, ensuring correct polarity (see battery silhouette as indicated in the compartment) beforehand.

› For best possible results, point the remote control directly at the device. Ensure that there is not more than a distance of 5 meters between the remote control and device and that the remote control is not used at an angle of over 60 degrees.

› Always remove the batteries from the device when storing or if it is not is use for longer periods of time.

Rechargeable battery

› This device utilizes a rechargeable lithium polymer battery with a capacity of 1800 mAh. A fully charged battery will give you the opportunity to watch television for up to approximately 2.5 hours, depending on the type of use.

› The battery is charged directly via the device. The charge indicator lights up red during charging and turns green once charging has been completed.

› Rechargeable batteries have a limited number of charge cycles. Each charging cycle, even a short one, shortens the battery lifespan. To increase battery lifespan, always recharge batteries completely and without disruption.

› This device has a permanent built-in lithium polymer rechargeable battery that should be kept away from sources of warmth. Never try to remove the rechargeable battery. Please contract your local dealer if a malfunction occurs during operation or battery replacement is required.

Note
Please note that the battery charging process can take up to approximately 20 hours, if the device is turned on at the same time. However, charging the battery with the device turned off will only take up to approximately 5 hours. It is therefore recommended to turn the device off during charging.

Please fully charge the battery in a turned off state completely first, before using it for the first time. This may otherwise impair capacity.
Try to avoid deeply discharging your rechargeable battery. This could impair capacity.

Information on handling batteries/rechargeable batteries

Please adhere to the following information when handling batteries/rechargeable batteries:

› Keep batteries out of children's reach.

› Batteries are hazardous waste and do not belong in household waste.

› Ensure that batteries are always inserted according to the correct polarity.

› Always remove batteries when not in use for longer periods of time.

› Never leave batteries lying around unsupervised. These could pose a choking hazard to children and pets if swallowed. Seek emergency medical care immediately, should this happen.

› Please follow manufacturer instructions when charging rechargeable batteries.

› Never expose batteries to extreme temperatures, such as for example resulting from sunlight, fire or ovens. There is the risk of explosion!

› Make sure that batteries are not dismantled, short-circuited or are thrown into fire. Never recharge non-rechargeable batteries. There is a risk of explosion!

› Touching leaking or damaged batteries could cause skin burns. Use suitable protective gloves when handling such batteries.

› Always ensure that the device has been turned off after use.

› Always change/replace all batteries at the same time.

› Clean battery and device contacts before inserting, where required.

› Avoid totally discharging rechargeable batteries.

› Always use batteries from the same manufacturer and never mix batteries, whether old with new, of different capacities or with rechargeable batteries.

› If the operating distance between remote control and device weakens or the remote control is not functioning properly any more, change the batteries as explained above.

Dear Customer!

Note:
Do not throw batteries and rechargeable batteries into household waste!

Consumers are legally obligated to return used and rechargeable batteries, whether they contain harmful substances* or not, to designated recycling areas, disposal sites, or stores where batteries/ rechargeable batteries can be bought. By doing so, you are fulfilling all legal battery recycling and disposal obligations and are contributing to a better enviroment. Make sure batteries are completly discharged before disposing!

*) marked with Cd = cadmium Hg= mercuric Pb= lead

Connections

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Note
The device should always be turned off when making cable or electrical connections. (Switch should be positioned to „OFF").
Cables should always be routed so that they can not be walked on or tripped over.

Power supply

› Turn the device off. Connect the power adapter's connector to the DC IN 9 –12 V power supply connection on the device. Now you can plug the power adapter's plug into a power outlet that has been correctly installed according to your public power system. To operate via your car's cigarette lighter, connect the car adapter's connector to the DC IN 9 –12 V power supply connection on the device. Now you can plug the adapter into your car's cigarette lighter.

Please bear in mind that the device consumes a minimal amount of power, even when turned off. Please take this into consideration when operating the device with your vehicle's electrical system. Remove the adapter from the power supply source in order to completely cut off the power supply to the device.

A/V IN

› You can connect an external signal source to this connection (for example a game console). Please refer to the user manual accompanying this device on how to connect properly.

A/V OUT

› This connection gives you the opportunity to use the SOL T700 as a signal source for an external device (for example as a monitor). Please refer to the user manual accompanying this device before connecting.

Earphones

› You can connect a set of earphones to this jack. Speakers are muted, once earphones are plugged into the device.

Please note that excessive sound pressure levels created when listening to loud volume levels, particularly with earphones or headphones, can lead to permanent hearing damage or loss.

USB connection

› Ensure that the device is turned off before connecting data media to the USB port on the device. The following data media can be used with the USB 2.0 port:

› USB flash drives formatted to FAT32 and with a capacity of up to 32 GB.

› USB hard disks formatted to FAT32 with a capacity of up to 80 GB (require their own power supply) and only one partition.

The USB connection does not warrant a supply of power to the external medium used, for example a hard disk. Please refer to the literature in the user manual accompanying the connected device.
Please note that connected USB cables must be less than 3 m in length in order to maintain EMC compliance. Using cables longer than 3 m could influence electromagnetic compatibility, which could lead to disturbance or failure.

Memory cards

› Ensure that the device is turned off before inserting a memory card into the card reader. You can use SDHC, SD, MMC and MS memory cards formatted to FAT32 with this 3-in-1 card slot. A maximum capacity of up to 32 GB can be used, depending on the type of memory card used.

Antenna

› Ensure that the device is turned off before connecting the antenna.
› Connect the antenna to the antenna connection found on the device.
› Select a location with good reception for top performance.

General operation

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The following generally applies to operating functions within a menu.

› The ON/OFF switch on the side of the device turns the device on and off.

› Move a selection or change a setting with the control field on the device or the navigation buttons on the remote control.

› Confirm a selection with „ENTER“/“OK“.

› Press the „EXIT“ button to exit the current menu or to return to the main menu.

› If „INFO: Operation guide“ can been seen at the bottom of the screen, press the “DISPLAY” button for a view/reminder of available operating functions.

Power ON/OFF

› Slide the ON/OFF switch to „ON“ to turn the device on.

› Turn the device off by sliding the ON/OFF switch to the position „OFF“.

› The device will automatically use the integrated rechargeable battery if it has not been connected to an external power source.

Note
When turning the device on for the very first time, it will try to carry out an automatic channel search.

› First, you will be asked to select a menu language and country.

› After a selection has been made, confirm your choice with „ENTER".

› Next, you will be required to confirm if you wish to install. Confirm with „YES" to start a channel search.

DVB-T

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› Change to a DVB-T mode by pressing the „TV/AV" button.

› Press the „DISPLAY" button repeatedly to display information about the current selected channel (e.g. reception quality and strength).

› Press the „ ⏯ " button while viewing a program to stop it and for example, take a closer look at a weather chart.

Channel search

› You can press the „SCAN" button to start an automatic channel search. Confirm with „YES" to delete existing channels and begin a channel search.

› As an alternative, you can also search through certain frequency ranges or channels in the main menu.

› Press the „MENU" buttonto open the main menu and select „Digital TV" › „Installation".

› Select „Area Search" to carry out a complete channel search. Existing channels will be deleted. The whole frequency range will be scanned through. Channels found will be stored in sequence. Confirm with „YES" to delete existing channels and to begin a channel search.

› Select „Manual Search" to search through a certain channel for stations. Stations of a channel already existing within a channel list, will be searched through and deleted. Following this, the channel will be search through completely once again. Stations found will be added to the end of the channel list.

› Select „Auto Search" to search through a certain range for stations. Stations within this frequency range, already existing within the channel list, will be searched through and deleted. Following this, the frequency range will be search through completely once again. Stations found will be added to the bottom of the channel list.

First time installation
› The installation assistant will start if the device is being used for the first time or settings have been restored to factory default settings.

› Use the „◄, ►, ▲ and ▼" buttons to move to a selection and the „ENTER" button to confirm.

› Select a menu language (OSD Language).

› Select the area in which you are in (Area).

› Press „ENTER".

› Confirm with „YES" to carry out the installation.

› The scan progress will start automatically.

› The device will switch over to the first channel found once the scan progress has been completed.

› If you select „NO", you will be able to carry out a channel search at a later point in time.

Channel selection

Choose one of the following options to select a channel:
› Use the „▲" and „▼" buttons to switch to the next/previous channel.

› Use the numerical buttons to enter a channel number directly.

› Press the „OK" or „ENTER" button to open the „Quick Select" guide to display listings.
› Use the „▲" and „▼" buttons to navigate to a channel.
› Use the „◄◄" and „►►" buttons to move faster through channel listings.
› Use the „◄" and „►" buttons to select a group (channels can be organized/defined ahead of time under „Main Menu" › „Digital TV" › „Channel Manager" › „Channel Grouping").
› Press the „OK" and „ENTER" buttons to switch to the selected menu item.
› Press „EXIT" to exit a menu/return to the previous menu.

› Press the „FAV" button to open a list of favorite channels.
Use the „◄" and „►" buttons to navigate to a channel (favorite channels can be arranged or added to a list under „Main menu" › „Digital TV" › „Channel Manager" › „Channel Organizer").
› Use the „◄◄" and „►►" buttons to move faster through favorite listings.
› Press the „OK" and „ENTER" buttons to switch to the selected menu item.
› Press „EXIT" to exit a menu/return to the previous menu.

› Press the „RECALL" button to switch back and forth between the current and previously viewed channel.

Zoom

› Press the „ZOOM“ button to activate the zoom function.
Now you can press the „◀◀“ and „▶▶“ buttons repeatedly to switch through different zoom levels (1/4, 1/3, 1/2, Normal, x 2, x 3, x 4).
› You can use the „◀, ▶, ▲ and ▼“ buttons to move an image during a zoom mode.

Teletext (TTX)

› Press the „TTX“ button to open the teletext menu.

› Use the „▲“ and „▼“ buttons to navigate to an available TTxPid and press „ENTER“. If the station you are watching supports this service, the teletext start page of this station will then be displayed on screen. This service may vary according to the station being watched.

› You can switch through various teletext window transparencies by repeatedly pressing the „ENTER” button. Press the „EXIT” or „TTX” button again to exit the teletext function.

› Use the numeric buttons to enter the page number you would like to view. After a page number has been entered, the device will begin searching for the requested page. Once found, the display will switch over to this page.

› Use the „▲“ and „▼“ buttons to browse up/down through the teletext. The device will try to proceed in the selected direction to the next available page.

› The „▶“ button can be used to move through teletext pages 100 at a time (e.g. from 728 to 828). Once pressed, the device will try to proceed to this page. The device may also return to the beginning (e.g. move from 828 back to 128).

› The „◀“ button can be used to move from the current page back to page 100 (e.g. from 728 back to 100).

› The colored fields (red, green, yellow and blue) at the bottom of the teletext page can be used to view the current and last three pages. Press the respective colored button to switch to the respective page.

Note
Being able to find a teletext page or use the teletext function all depends upon the signal reception quality and whether the station selected supports this service.

Electronic program guide (EPG)

› The „EPG“ button opens the electronic program guide. Once selected, programs will be search for within a seven-day period.

› The „▲“ and „▼“ buttons move a selection up/down.
Navigating with these buttons in the channel list will simultaneously change the program in the background.

› Use the „◀“ and „▶“ buttons to switch between the channel list and TV program guide.

› Use the „◀◀“ and „▶▶“ buttons to browse through the days of the week within the program guide.

Daily Mode
› Press the red button to change from a weekly to a daily program mode and to display detailed information about the current channel's program.

Weekly Mode
› Press the green button to change from a daily to a weekly mode. In the program guide you will be able to see a short version of programs found within a three-hour period. You can use the „◀“ and „▶“ buttons to move through the program guide.

Extended Mode
Navigate within the program guide to a desired program and press the yellow button. Any additional information (e.g. start and end time of a program or the theme) will be displayed in this window. Use the „▲“ and „▼“ buttons to move up/down through each line of the text and the „◀◀“ and „▶▶“ buttons to page up/down through the whole text field found in this window.

Note
Being able to access the electronic program guide all depends on the signal reception quality and whether this service is supported by the selected channel.

What is DVB-T?

DVB-T is the abbreviation for Digital Video Broadcasting – Terrestrial and refers to the transmission of digital television signals into the atmosphere using terrestrial methods.

DVB-T is a variation of DVB and is mainly used as a standard for transmitting digital television and radio via an antenna in various European countries. The transmission frequencies used to broadcast DVB-T already correspond with well-known analog broadcasting UHF and VHF channels. These channels can be used more effectively with digital broadcasting than with analog technology, as more stations per channel can be transmitted.

Main menu

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› Press the „MENU“ button to open the main menu.

› The following chart will give you a general idea about the main menu's structure. This outline makes it easier to understand the options and functions contained within this menu.

Main Menu			
Digital TV	Channel Manager	Channel Organizer	Add/Remove stations to/ from a favorites list, move, lock, delete or rename channels
		Channel Sorting	Define the sorting order
		Channel Grouping	Assign channels to certain groups
		Edit Channels	General view and setting options of channel PIDs
		Delete All	Deletes all stations
	Installation	Automatic	Starts an automatic channel search
		Manual Search	Search manually for a certain channel
		Area Search	Search through a certain frequency range
	Configuration	OSD	Select a menu and preferred audio language
		TV	Select diverse picture display options
		System Setup	Select different sound and picture effect settings or LCN and area settings
		Time	Set the time
		Parental lock	Change the password
	Software Upgrade		Select different sound and picture effect settings or LCN and area settings
	Factory Default		Restore settings to a factory default setting
	Version		Displays diverse device hardware and software information
Movie			Opens the browser for video file display
Music			Opens the browser for music file display
Photo			Opens the browser for displaying photos

Channel Manager

Channel Organizer
› The „Channel Organizer" gives you the opportunity to create your favorites, move channels, lock channels to prevent use and/or to delete channels.

› Use the „▲" and „▼" buttons to select a channel in the channel list.

› Use the „◀◀" and „▶▶" buttons to move faster through the channel list.

Favo Press the red button to add/remove a channel to your favorites.

Del Press the green button to delete a highlighted channel or to cancel the highlighted channel.
You will be required to enter a password once. Upon exiting the „Channel Organizer" you will be asked to confirm if the highlighted channel is to be deleted.

Mov Press the yellow button to move a channel to a different channel location.
Use the „▲" and „▼" buttons to select a new channel location and the „ENTER" button to confirm. The channel will then be relocated to this channel location.

Lock Press the blue button to lock a channel or cancel a lock mode.
You will be required to enter a password once. In the future, you will be required to enter this password in order to view the locked channel.

Rename Press the „◀" or „▶" button to open a window for renaming channels.
› Press the numerical buttons repeatedly to move through and select the required character. Available characters can be seen in the dialogue box above the numerical pad. It will take approximately 5 seconds before the cursor moves to the next location and the previously entered character is accepted.
› Use the red button to change between characters (letters and/or numbers).
› Use the green button to change between upper and lower case letters.
› Use the blue button to insert an empty space between characters.
› Use the green button to delete the position in which the cursor is currently located.
› Use „◀" or „▶" to move through entered positions.
› Select "EXIT" to exit the dialogue box without renaming a channel.
› Select "ENTER" to exit the dialogue box and to save the new name.

› Press „EXIT" to exit the "Channel Organizer" menu again.

Channel Sorting
Here you will be able to determine the order in which channels are to be sorted.

› Use the „▲" and „▼" buttons to select an option.
› Use the „◀" and „▶" button to change between options and suboptions.
› Suboptions can be selected with the „▲" and „▼" buttons.

› Press „ENTER“ to confirm a selection.

The „First Option” is for selecting a country.
The „Second Option” is for selecting an encoding option.
The „Third Option” is for selection according to names.
A combination of the above options is also possible.

› Press the „EXIT“ button to discard selected options and to exit the „Channel Sorting” menu.

› Press the „ENTER” button after options have been selected and confirm with „YES” to save selected options and carry out a sorting process.

› Use the „◀◀“ and „▶▶“ buttons to browse through channel listings faster and to take a look at how channels are currently stored.

Channel Grouping
In this menu you will be able to assign channels to certain groups.
› Use the „▲“ and „▼“ buttons to select a channel to be assigned to the quick select guide. Use the „◀◀“ and „▶▶“ buttons to move through the channel list faster. Use the numerical buttons to assign the highlighted channel to a certain group. The following available groups include:
1 – None
2 – News
3 – Science
4 – Sport
5 – Movie
6 – Kids
7 – Music
8 – Fashion

› Press the „EXIT“ button to exit the channel grouping menu and to confirm settings that have been carried out.

Note
Favorites can be edited in the menu option „Channel Organizer”.

Edit Channels
› This menu allows you to create stations according to information packs or to add carriers to them.

› Press the red button to open a dialogue field for adding a certain station.

› Press the yellow button to open a dialogue field for editing existing stations. Use the „▲“ and „▼“ buttons to select a channel in the list or use the „◀◀“ and „▶▶“ buttons to move faster through channels.

Area name	select a country; only available under the option „Add Channel“
Carrier	available carrier signal; only available under the option „Add Channel“
Channel	determines a new channel name
Audio PID	Audio Packed Identification (audio signal ID of the desired station within the selected carrier signal)
Video PID	Video Packed Identification (video signal ID of the desired station within the selected carrier signal)
PCR PID	Program Clock Reference (contains information about the signal synchronization of the decoder)

Delete All
› This option lets you delete all TV channels and/or radio stations.

› Use the „▲“ and „▼“ buttons to make a selection.
› Press „ENTER” after selecting an option.
› Select „YES” within the dialogue window to confirm deletion.

Installation

› This menu option allows you to search for stations in several ways.

Area Search
› Select the option „Area Search“ to begin an automatic channel search. Existing channels will be deleted. This scanning process will search through the whole frequency range. Channels will be stored in the order that they are found. A dialogue window will appear on display requiring you to confirm a channel search. Select „YES” to delete existing channels and to begin an automatic search.

Manual Search
Select „Manual Search“ to search through a certain channel for stations. Stations of a channel already existing within a channel list will be searched through and deleted. Following this, the channel will be search through completely once again. Stations found will be added to the end of the channel list.

› Use the „◄“ and „►“ button to select a channel that you'd like to search through for stations.

› Press „ENTER” to begin searching.

› Press „EXIT” to cancel a search process and to exit this menu option.

Auto Search
› Select „Auto Search” to search through a certain frequency range for stations. Stations within this frequency range, which already exist in the channel list, will be searched through and deleted. Following this, the frequency range will be search through completely once again. Stations found will be added to the bottom of the channel list.

Start Freq (KHz)	determine where a search is to begin › Use the numerical buttons to enter the desired start frequency. › Use the „◄“ and „►“ buttons to move through positions.
End Freq (KHz)	determine where a search is to end › Use the numerical buttons to enter the desired end frequency. › Use the „◄“ and „►“ buttons to move through positions
Bandwidth	choose the bandwidth for the selected channel › Use the „◄“ and „►“ buttons to select a bandwidth

› Use the „▲“ and „▼“ button to change through options.
› Press „ENTER“ to begin searching.
› Press „EXIT” to cancel a search process and to exit this menu option.

Configuration

OSD
› Select this option for access to various display and language setting options.

OSD › select a menu color scheme
Time on OSD › select on/off to display/not display the time on screen
OSD Timeout › determine the window fade out effect (e.g. changing channels)
OSD Trans › select the menu window transparency
OSD Language › select a preferred menu language
MP4 Sub Language › select a preferred subtitle language*
1. Audio Language › select the preferred first language*
2. Audio Language › select the preferred second language*
* These settings refer to, for example, DVDs or files found on removable storage devices.

TV

Display Mode › determine if the color system is to be selected automatically or if a PAL or NTSC setting is preferred.
Aspect Ratio › select a preferred aspect ratio (16:9, 4:3 LB or 4:3 PS)
Brightness › select to adjust the brightness
Contrast › select to adjust the contrast
Hue › select to adjust the shade of color
Saturation › select to adjust the color saturation

› In addition to the above options, you can also press the „MODE“ button to open a further menu. Setting options that can be performed in this menu are independent and/or additional to those found within the menu „TV“.

› Press the „MODE“ button.
Use the „▲“ and „▼“ buttons to select between the menu options „PICTURE“ and „SYSTEM“.
Press „ENTER“ or „►“ to access the selected menu.

Use the „▲“ and „▼“ buttons within this submenu to carry out setting adjustments. Press the „MODE“ button once again to return to the menu selection option or to exit the menu again.

MODE MENU		
PICTURE	BRIGHTNESS	For brightness adjustments
	CONTRAST	For contrast adjustments
	COLOR	For color saturation adjustments
	LANGUAGE	For selecting the language of this menu
	RESET	Restore factory default settings
SYSTEME	PICT. ASP.	Switch between a 16:9 and 4:3 screen format
	VERTICAL	Flip an image vertically

System Setup

› Select this menu to carry out basic setting options
EQ Setup › select an equalizer setting
Surround › select a surround sound effect
JPEG Effect › select on/off to display/not display picture effects during viewing
LCN › turn the logical channel number on/off
Area › select an area

Time

› In this menu option you have the opportunity to set the time and date.
Timer Mode › select if the time is to be received automatically or manually set
Date › enter the date in the following order: mm/dd/yyyy
Time › enter the time hh:mm

GMT Offset › select the current time zone offset (Germany is GMT +01:00)
Summer time › turn the Daylight Savings Time function on/off

Parental Lock
› This menu option gives you the opportunity to set a password. The preset password is "0000".

Software Upgrade

› This option allows you to search through a connected removable storage device for a file that can be used to carry out a software upgrade.

Note
Please not that the user is solely responsible for any upgrades and all actions carried out.

Factory Default

› This option allows you to restore all device settings to a factory default setting. Select „YES" within the dialogue window to carry out this action.

Note
Please note that the user is solely responsible for returning settings to a factory default setting.

Version

› This option opens a window that displays information on device hardware/software. Press „EXIT" to exits this menu window again.

Movie

› Select this option to open a file browser containing movie files stored on the connected storage medium.

› Directories and playable files will be displayed. AVI video files are supported.

› Use the „▲" and „▼" buttons to select a file or directory in the list.
› Use the „◀◀" and „▶▶" buttons to move faster through the file list.
› Press „ENTER" to start playback or to access a directory.
› Use the numerical buttons to enter a number directly. After approx. 3 seconds the device will begin playback or change to the corresponding directory. Press „ENTER" for immediate access to the film / to switch to the directory.

› Press „▶II" to pause or resume playback.
› Press „■" to stop playback.
› Use the „▶▶I" and „I◀◀" buttons to return/skip to the previous/next file.

› Press the „◀◀" and „▶▶" buttons repeatedly to fast forward/reverse (x 2, x 4, x 8, x 20 and off). A fast forward/reverse process can be stopped by pressing the „▶II" button.

› Press „REPEAT“ to switch through various repeat mode options:
Repeat One › repeats the current file
Repeat Dir › repeats the current directory
Repeat Shuff. › repeats the current directory in a random order
Repeat OFF › turns the repeat mode function off

› Press „ZOOM“ to activate the zoom function.
Press the „◀◀“ and „▶▶“ buttons repeatedly to switch through different zoom levels (1/4, 1/3, 1/2, Normal, x 2, x 3, x 4).
Use the „◀, ▶, ▲ and ▼“ buttons to move an image during a zoom mode.

› Press „DISPLAY“ to display names, playing time and total playing time.

› Press „EXIT” to stop playback or to switch to a higher directory level / return to a menu mode.

Music

› Select this option to open a file browser containing music files stored on the connected storage medium. Directories and playable files will be displayed. MP3 and WAV audio files are supported.
› Use the „▲“ and „▼“ buttons to select a file or directory in the list.
› Use the „◀◀“ and „▶▶“ buttons to move faster through the file list.
› Press „ENTER“ to start playback or to access a directory.
› Use the numerical buttons to enter a number directly. After approx. 3 seconds the device will begin playback or change to the corresponding directory. Press „ENTER” to play a song immediately / to switch to the directory.

› Press „⏯“ to pause or resume playback.
› Press „■“ to stop playback.
› Use the „⏭“ and „⏮“ buttons to return/skip to the previous/next file.

› Press the „◀◀“ and „▶▶“ buttons repeatedly to fast forward/reverse (x 2, x 4, x 8, x 20 and off). A fast forward/reverse process can be stopped by pressing the button.

› Press „REPEAT“ to switch through various repeat mode options:
Repeat One › repeats the current file
Repeat Dir › repeats the current directory
Repeat Shuff. › repeats the current directory in a random order
Repeat OFF › turns the repeat mode function off

› Press „EXIT” to stop playback or to switch to a higher directory level / return to a menu mode.

Photo

› Select this option to open a file browser containing photo files stored on the connected storage medium.
Directories and playable files will be displayed. JPEG files are supported.
› Use the „▲“ and „▼“ buttons to select a file or directory in the list.
› Use the „◀◀“ and „▶▶“ buttons to move faster through the file list.
› Press „ENTER“ to start playback or to access a directory.
› Use the numerical buttons to enter a number directly. After approx. 3 seconds the device will display the picture or change to the corresponding directory. Press „ENTER” to display the picture immediately / to switch to the directory.

› Press „ENTER“ to start a slideshow or to skip to the next picture.

› Press „⏯“ to pause or resume a slideshow.
› Press „■“ to stop picture display.
› Use the „⏭“ and „⏮“ buttons to return/skip to the previous/next file.
› Use the „◄“ and „►“ buttons to rotate a picture to the left/right.
› Use the „▲“ button to flip a picture vertically from left to right around the central axis.
› Use the „▼“ button to flip a picture horizontally from top to bottom around the central axis.

› Press „ZOOM“ to activate the zoom function.
Press the „⏪“ and „⏩“ button repeatedly to switch through different zoom levels (1/4, 1/3, 1/2, Normal, x 2, x 3, x 4). Use the „◄, ►, ▲ and ▼“ buttons to move an image during a zoom mode.

› Press „DISPLAY“ to display names, picture type and size.

› Press „EXIT” to stop playback or to switch to a higher directory level / return to a menu mode.

Selecting a signal source 9

› Press the TV/AV button on the remote control or on the device to change between DVB-T and A/V input operation.

› The TV/RADIO button lets you switch between DVB-T operation and available radio stations.

› Browsers for removable storage devices can be selected in the main menu.

› Ensure that the medium selected for use has been properly connected to the device.

› Open the main menu and select the „Movie”, „Music” or „Photo” browser.

› Now you can select between „USB” and „CARD” to open the selected medium's browser.

10 Audio settings

› Press the „AUDIO" button during DVB-T operation to open a menu for different audio track and balance setting options.

› Different equalizer and sound effect settings can be turned on and off in the main menu under „Main Menu › Digital TV › Configuration › System Setup".

› You can increase/decrease the volume with the volume control dial.

› Press the „MUTE" button to deactivate/activate the sound.

Try to maintain a safe volume level and avoid excessive noise. Over a certain amount of time your hearing will become accustomed to the adjusted volume level.
Please note that excessive sound pressure levels created when listening to loud volume levels, particularly with earphones or headphones, can lead to permanent hearing damage or loss.

Ensure that the volume control dial has been regulated to a minimum sound level before turning the device on or before using on earphones/ headphones.

11 Troubleshooting

The device you have just purchased is equipped with state-of-the-art technology and is safe to operate. Nevertheless, problems or malfunctions may occur.

Before contacting a service technician, refer to the following possible solutions:

Problems with file playback
› Check if everything has been connected properly.
› The audio codec is not supported.
› The video codec is not supported.
› You've been trying to open the wrong file type.
› You would like to open a file type intended for a different operating mode.

The remote control is not working
› Check if the batteries have been inserted correctly.
› If batteries are empty, replace them with new ones.
› Point the remote control to the remote sensor and press to operate.
› Remove any objects found between the remote control and the remote sensor.
› Make sure the distance between the remote control and the device does not exceed 8 m.

Buttons do not function (on the device and/or remote control)
› Turn the device off and then on again. As an alternative, slide the power switch on the device to OFF, unplug it from the power outlet and plug in again. (The device may also not be functioning due to a stroke of lightning, static electricity or other external factors.).

Distorted/Noisy reception or no picture
› The reception frequency is not optimal.
› The antenna is not adjusted properly.
› Start an automatic channel scan.

My removable storage device is not detected
› Ensure that the storage medium has been connected properly.
› The storage medium has not been formatted to the FAT32 file system.

Any repairs other than those mentioned above are to be carried out solely by an authorized technician.

Maintenance, handling and cleaning 12

› Never operate the device in places with extreme high or low temperatures.

Permissible storage temperatures: – 25° C – 60° C
Permissible operating temperatures: 0° C – 40° C

› Should pixel errors (to light or to dark pixels) appear during operation, then this does not necessarily mean that the device is defect. These errors are a common TFT LCD technology problem. Up to five pixel errors are acceptable.

Maintenance
› Carry out a technical safety inspection on a regular basis, e.g. check if the power cable or housing may have become damaged.

› If there is reason to believe that the device can no longer be operated safely, then disconnect it immediately from the power supply and secure it against any unintentional operation. Carefully remove the power cable plug from the wall outlet and where applicable switch off the corresponding circuit breaker first.

It can be assumed that safe operation is no longer possible, if:
› there is visible damage to the device or power cable,
› the device no longer works,
› it has been stored for a longer period of time under unfavorable conditions
› or exposed to rigorous transport conditions.

› Always adhere to the following safety instructions before cleaning or servicing the device:

› Live parts may be exposed, if the covering is opened or parts are removed.

› The device must be disconnected from the power supply source prior to service, maintenance or repairs.

› Capacitors within the device may still carry voltage even though they have been disconnected from all power supply sources.

› Repairs are only to be carried out by qualified personnel, who are familiar with the hazards involved and the relevant regulations.

Transporting or sending the device
Please retain the original box and the packaging material in case you need to transport or send the device out for maintenance at a later date. Please note that the device should be repacked in the original packaging. The box and packaging have been especially developed for this device in order to protect it during transport and against damage. Retain this instruction manual for future reference and where required pass it along with the device if handed over to a third party.

Keeping the external case clean
Never use volatile fluids near the device, as for example insect spray. Avoid letting the device come in contact with rubber or plastic products for longer periods of time. These could otherwise leave marks behind.

Cleaning the device
Unplug the power cable before cleaning. Always use a soft and dry cloth to clean the unit's exterior. If the device is extremely dirty you can use a soft cloth, dampened with water or a mild cleaning solution to clean. Never use any abrasive or harsh cleaning agents (e.g. alcohol, benzine or thinners) as these could damage the controls, casing or any markings and labels found on the device.

Contribute to a better environment by using a designated disposal system (e.g. Dual System in Germany) or recycling site for the disposal of packaging material.

Dear Customer!

Important Notice:

Please note that electrical and electronic devices must never be disposed of in regular household waste!

Consumers are legally obligated and responsible for the proper disposal of electronic and electrical devices by returning them to collection sites designated for the recycling of electrical and electronic equipment waste after the useful lifetime of a device has come to an end. For more information concerning collection sites and correct disposal, please contract your local authority or waste management company. The presence of the above symbol on a device, on its packaging or within the instruction manual indicates that this item must not be disposed of in normal unsorted municipal waste.
In doing so, you are fulfilling all recycling and disposal obligations and are optimizing and contributing to a better environment. These disposal regulations apply to battery/rechargeable battery disposal as well. Most batteries contain hazardous chemicals which can contaminate the environment and human health, if they are discarded in ordinary household waste. According to legislation, batteries are to be returned to the place of purchase, disposed of at designated recycling areas or disposal sites.

Specifications

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Technical data

› Operating voltage:	Power supply: 100 – 240 V ~ 50/60 Hz Car adapter: 10 –15 V DC Device: 9 – 12 V DC
› Screen diagonal:	17.78 cm (7“)
› Picture format:	16:9, 4:3
› Pixels:	480 RGB (H) x 234 (V)
› Video color system:	PAL and NTSC
› Dimensions (approx.):	236 (W) x 125 (H) x 36.5 (D) mm
› Weight (approx.):	550 g
› **Connections:**	DC IN 9 –12 V A/V OUT (3.5 mm) A/V IN (3.5 mm) Stereo earphones (3.5 mm) Antenna (75 Ω) 3-in-1 card reader USB 2.0
› **Supports:**	Video: AVI Audio: MP3 and WAV Photos: JPEG
› **USB 2.0**	USB flash drives up to 32 GB and formatted to FAT32 External hard disks formatted to FAT32 (requires their own power supply; only one partition)
› **Memory cards**	SDHC, SD, MMC and MS cards up to 32 GB (depending on the type) and formatted to FAT32

Battery parameter

› Lithium polymer rechargeable battery (7,4 V/1800 mAh)

› Charge time:	approx. 5 hours (turned off) to 20 hours (turned on)
› Discharge time:	up to 2.5 hours, depending on the type of active use

Permissible storage and operating temperatures

Storage conditions	Temperatures	Humidity
6 Months	– 20 °C ~ + 45 °C	65 ± 20 %
1 Week	– 20 °C ~ +65 °C	65 ± 20 %
Operating conditions	Temperatures	Humidity
Normal charging	0 °C ~ + 45 °C	65 ± 20 %
Normal discharging	– 20 °C ~ + 65 °C	65 ± 20%

Delivery contents

› X4-TECH SOL T700 with built-in rechargeable battery
› Power supply 100 – 240 V
› 12 V car adapter
› DVB-T antenna with magnetic base
› Remote control with batteries
› Instruction manual
› Service data sheet

Version 1.0 – 3/2010

Service

Should questions arise then please contact a specialist or our service hotline:

Hotline: +49 (0) 53 02/8 06-450
Address: x-services.eu gmbh
Service department X4-TECH
Brackestraße 3 · 38159 Vechelde/Germany

› Information and updates: http://www.x4-tech.de

› We reserve the right to alter specifications and information contained in this manual without notice.

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